

**IN THE SEQUENCE LISTING AND COMPUTER READABLE FORM**

Please delete the original Sequence Listing and substitute therefor the attached amended Sequence Listing contained on Substitute Sequence Listing Sheets 1-36.

Please replace the original computer readable form with the enclosed substitute computer readable form.

**REMARKS****Executed Declaration/Power of Attorney**

As requested in the Notice To File Missing Parts, Applicants submit herewith a combined declaration/power of attorney, executed by inventors Hendricus R.J.M. Hoogenboom and Maria P.G. Henderikx. Entry of the executed combined Declaration/Power of Attorney is respectfully requested.

**Amended Sequence Listing and Substitute Computer Readable Form**

Applicants submit herewith an amended Sequence Listing in the form of Substitute Sequence Listing Sheets 1-36 (containing all SEQ ID NOS:1-112) to replace the Sequence Listing, which was originally filed with the application and which was objected to in the Notice to File Missing Parts. The specific sequences of SEQ ID NOS:1-112 in Substitute Sequence Listing Sheets 1-36 are identical to those in the originally filed Sequence Listing. However, the Notice instructs Applicants to provide information in certain fields of the Sequence Listing that is consistent with the latest formatting rules as indicated on the copy of the "Raw Sequence Listing", which accompanied the Notice.

In particular, the originally filed Sequence Listing contained the entry "synthetic" in the "Organism" field (<213>). However, according to the latest formatting rules, the term "synthetic" is not an acceptable entry for field <213>. Applicants have therefore amended the entry in field <213> for all of the sequences (SEQ ID NOS:1-112) to replace the term "synthetic" with the acceptable entry term "artificial sequence".

In addition, Applicants have amended the Sequence Listing to contain descriptive information as required (i.e., where mandatory) in fields <220> to <223> for each of the artificial sequences. Support for the mandatory descriptive information provided in fields <220> to <223> on Substitute Sequence Listing Sheets 1-36 is supported by the specification, e.g., as indicated in the table below.

SEQ ID NO:	Support in the specification at
1	p. 7, lines 22-23
2	p. 7, lines 22-23
3	p. 7, lines 24-25
4	p. 7, lines 24-25
5	p. 5, lines 21-22; p. 22, lines 14-16
6	p. 22, lines 14-16
7	p. 32, lines 24-25
8	p. 32, lines 25-27
9	p. 33, lines 27-28
10	p. 33, lines 28-29
11	p. 36, lines 9-12
12	p. 36, lines 12-13
13	p. 36, lines 16-18
14	p. 36, lines 18-19
15	p. 36, lines 31-33
16	p. 37, lines 1-3
17	p. 37, lines 3-4
18	Table 2, p. 35, lines 1-28
19	Table 2, p. 35, lines 1-28
20	p. 36, lines 5-6
21	p. 36, lines 4-5
22	p. 36, lines 7-8
23	p. 36, lines 6-7
24	p. 20, lines 9-10
25	p. 20, lines 10-11
26	p. 20, lines 11-12
27	p. 20, lines 12-13
28	p. 23, line 25-p. 24, line 1
29	p. 24, line 6
30	p. 24, line 7
31	p. 24, line 8
32	p. 24, line 9
33	p. 45, lines 14-16
34	p. 45, lines 18-20
35	p. 45, lines 22-25
36	p. 45, lines 27-30
37	p. 45, lines 32-35
38	p. 46, lines 1-3

39	p. 46, lines 5-7
40	p. 47, line 10
41	Table 5, p. 50, line 14
42	Table 5, p. 50, line 15
43	Table 5, p. 50, line 18
44	Table 5, p. 50, line 19
45	Table 5, p. 50, line 22
46	Table 5, p. 50, line 23
47	Table 5, p. 50, line 26
48	Table 5, p. 50, line 27
49	Table 5, p. 50, line 30
50	Table 5, p. 50, line 31
51	Table 5, p. 50, line 35
52	Table 5, p. 50, line 36
53	Table 5, p. 51, line 4
54	Table 5, p. 51, line 5
55	Table 5, p. 51, line 8
56	Table 5, p. 51, line 9
57	Table 5, p. 51, line 12
58	Table 5, p. 51, line 13
59	Table 5, p. 51, line 16
60	Table 5, p. 51, line 17
61	Table 5, p. 51, line 20
62	Table 5, p. 51, line 21
63	Table 5, p. 51, line 26
64	Table 5, p. 51, line 27
65	Table 5, p. 51, line 30
66	Table 5, p. 51, line 31
67	Table 5, p. 51, line 34
68	Table 5, p. 51, line 35
69	Table 5, p. 51, line 38
70	Table 5, p. 52, line 1
71	Table 5, p. 52, line 5
72	Table 5, p. 52, line 6
73	Table 9, p. 56, line 27
74	Table 9, p. 56, line 29
75	Table 9, p. 56, line 30
76	Table 9, p. 56, line 31
77	Table 9, p. 56, line 35
78	Table 9, p. 56, line 36
79	Table 9, p. 56, line 37
80	Table 9, p. 56, line 38
81	Table 9, p. 56, line 39
82	Table 9, p. 56, line 41
83	Table 9, p. 56, line 42
84	Table 9, p. 57, line 3
85	Table 9, p. 57, line 4
86	Table 9, p. 57, line 6
87	Table 9, p. 57, line 7

88	Table 9, p. 57, line 8
89	Table 9, p. 57, line 9
90	Table 9, p. 57, line 15
91	Table 9, p. 57, line 16
92	Table 9, p. 57, line 18
93	Table 9, p. 57, line 19
94	Table 9, p. 57, line 20
95	Table 9, p. 57, line 21
96	Table 9, p. 57, line 22
97	Table 9, p. 57, line 24
98	Table 9, p. 57, line 25
99	Table 9, p. 57, line 26
100	Table 9, p. 57, line 27
101	Table 9, p. 57, line 28
102	Table 9, p. 57, line 30
103	Table 9, p. 57, line 31
104	Table 9, p. 57, line 32
105	Table 9, p. 57, line 33
106	Table 9, p. 57, line 34
107	Table 9, p. 57, line 35
108	Table 9, p. 57, line 36
109	Table 9, p. 57, line 39
110	p. 59, lines 27-30
111	p. 59, line 32-p. 60, line 1
112	p. 60, lines 1-2

Statements under 37 C.F.R. § 1.825(a) and (b)

The amended Sequence Listing is provided on Substitute Sequence Listing Sheets 1-36 in accordance with 37 C.F.R. § 1.825a. The undersigned attorney hereby states that the amendments are fully supported by the specification, as indicated above, and that the sequence information provided on Substitute Sequence Listing Sheets 1-36 adds no new matter.

Furthermore, in accordance with 37 C.F.R. § 1.825(b), the undersigned attorney hereby states that the substitute computer readable form, submitted herewith, contains the same information as the amended Sequence Listing contained on Substitute Sequence Listing Sheets 1-36.

Applicants respectfully request entry of the executed combined Declaration/Power of Attorney, Substitute Sequence Listing Sheets 1-36, and the substitute computer readable form to complete the formal requirements for this application.

Respectfully submitted,



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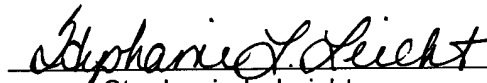
Fax: (617) 491-8801

CERTIFICATE OF MAILING PURSUANT TO 37 C.F.R. § 1.8

The undersigned hereby certifies that this correspondence is being deposited with the U.S. Postal Service as First Class Mail, postage prepaid, in an envelope addressed to the Asst. Commissioner for Patents, Box MISSING PARTS, Washington, DC 20231, on the date indicated below.

June 29, 2001

date of mailing and signature



Stephanie L. Leicht